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GO ROSE
Basketball *WIN*
INVITATIONAL

the Rose Thorn

Only
16 Days
till Christmas

Committee unveils integrated freshman curriculum

by P.J. Hinton

Imagine going through your freshman year at Rose with a curriculum under which chemistry, physics, mathematics and computer programming are taught under a single course title.

Such an integrated curriculum was presented to the Rose student body for comment at a special open meeting Monday night.

The curriculum is the result of the efforts of six Rose professors.

The professors in this group are Jeffrey Froyd, associate professor of electrical engineering; Brian Winkel, professor of mathematics; Robert Lopez, associate professor of mathematics; Edward Mottel, associate professor of chemistry; Michael Moloney, professor of physics; and Andrew Mech, associate professor of mechanical engineering.

Froyd and Winkel conducted the Monday night presentation, which took place at the performing arts room of the Hulman Memorial Union.

According to Froyd, the effort resulted from circulating comments among the Rose faculty that freshmen were not making "connections between courses" taken in the freshman year.

A classic example of this problem, Froyd added, was from a student taking Calculus III. The topic being discussed in the class was the free falling body prob-

lem. The student, who had previously taken Mechanics, said to his professor, "Can't I solve this using physics?"

Because of several similar instances throughout the years, the group of professors was led to conclude that students tend to learn material by classifying it into several separate areas, such as mathematics, physics and chemistry.

Apparently freshmen failed to see that relationships between these fields of study exist. For example, chemical kinetics, studied in Chemistry II, deals with the study of rates of reactions. These rates are discussed in terms of derivatives, which is a cornerstone of Calculus. Furthermore, these two concepts are related with the concept of speed as a derivative, which is studied in Mechanics and Dynamics.

According to the committee, this "box" learning is inefficient. The freshmen need to learn to become good problem solvers and decision makers as tomorrow's engineers and scientists.

In order to prevent "box" thinking, the committee proposed a curriculum which unites the basic freshman courses into a single, three-quarter sequence of courses under the title "Science, Engineering and Mathematics" or "SEM."

Military science and humanities/social life sciences courses would remain the same, and freshmen in the new curricu-

lum would still be able to take these courses.

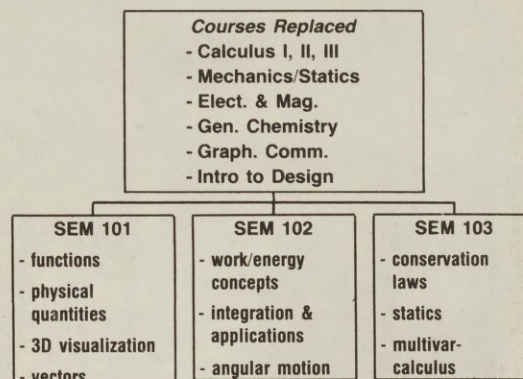
The group outlined five thematic concepts which permeate the freshman curriculum. They are 1) rate of change (derivatives), 2) accumulation (integration), 3) forces, 4) work/energy concepts and 5) conservation laws. By presenting the courses in this light, the committee hopes that "box-forming" will be eliminated.

Each quarter of the freshman year would contain a 12-credit hour course (denoted SEM 101, SEM 102, SEM 103 respectively). The course would have nine hours of recitation and three lab periods per week. A brief description of the material covered in each course is given in the table accompanying this article.

The new course would replace 37 credit hours of regular course material. The courses replaced would be Calculus I, II and III; Mechanics or Engineering Statics; Electricity and Magnetism; General Chemistry I and II; Graphical Communications; Introduction to Design; and Computer Programming I.

The group hopes to try an experimental version of this curriculum during the 1989-90 school year, using a body of 120 freshman volunteers. A team of six professors would teach the SEM course. The group of professors who will teach the SEM course is still undetermined.

INTEGRATED FIRST-YEAR CURRICULUM IN SCIENCE, ENGINEERING and MATHEMATICS



NOTE: This diagram only shows some highlights of the integrated curriculum. A much more detailed curriculum outline has been proposed.

SOURCE: Proposed curriculum outline from Jeffrey Froyd and Brian Winkel.

Should a student be failing the curriculum (under the trial period system), at midterm of first quarter, he would be transferred to the regular curriculum. Because of the special nature of the curriculum he would take Differential Calculus and an intensive version of Chemistry I instead of a completely "regular" schedule.

The group has predicted that a sixth of the students in the trial curriculum may have to drop

from the curriculum because of grades.

The examination system of the course will be integrated with three common examinations and one or more final examinations.

When the presentation ended, Froyd and Winkel answered questions regarding the proposal. Among the concerns of students present were the feasibility of the entire program, the role of advanced placement, the grading system and the ability of students to choose a major under the program.

News Briefs

Saxophone focus of next fine arts program

ASQ has produced two albums which feature the music of Eubie Blake and contemporary American composers Alec Wilder, Paul Creston, Robert Mols and Stephen Parisi.

In addition to the songs of Gershwin and Balke, the concert will feature three works by Bach including "Fugue in G - Alla Gigue," "Air Suite No. 3 D Major" and "Badinerie - Suite No. 2 in B Minor."

ASQ will also perform Eugene Bozza's "Nuages - Sherzo," and "Quantur Pour Saxophones Op." by Joseph Jongen.

Tickets for the concert can be purchased at the door prior to the program. Prices are \$3 for adults and \$1.50 for senior citizens and non-Rose students.

During its ten years on tour the Amherst Saxophone Quartet has performed at Carnegie

Hall, Kennedy and Lincoln Centers, and tomorrow night, the quartet will bring its repertoire to Rose-Hulman for a concert featuring a variety of musical styles.

The 7:30 p.m. show in the Moech Hall Auditorium will include the works of Bach and Verdi, a medley of Gershwin hits, songs by ragtime great Eubie Blake and several Jazz tunes.

The quartet is the performance arm of the Amherst Saxophone Society founded in Buffalo, N.Y. to promote public interest in saxophone music as an American art form.

Members of ASQ are Salvatore Andolina, Michael Nascimben, Stephen Rosenthal and Harry Fackelman. They have performed from coast-to-coast and were described as "first rate in every respect" following their first of three concerts at New York City's famed Carnegie Hall.

Phillips gets J.B. Wilson scholarship

After graduation, Phillips, a civil engineering major, plans to use his consulting expertise with Illinois farmers and farm families. He has shown an interest in analyzing farm failures, optimizing equipment procedures and computer programming.

Salutatorian of his graduating class at Potomac High School in Potomac, Ill., Phillips attended Danville Area Community School from 1983 to 1985 before transferring to Rose-Hulman. On-the-job ex-

perience includes working three summers as a data processing specialist for the Illinois Department of Transportation.

Rose-Hulman senior Carl K. Phillips of Paris, Ill., has been awarded the 1988-89 J. B. Wilson Consulting Engineering Scholarship by the Consulting Engineering Commission.

Selection is based on potential exhibited in consulting engineering courses at Rose, according to Cecil Lobo, commission chairman.

Change — the environment of science & engineering

by Thomas W. Mason
Vice President of

Administration & Finance

In every human being, there is some desire for the security that comes from stability.

We lament the loss of by-gone, simpler eras, when the world seemed right. Yet, if we are students of history, rather than just nostalgia, we know that change is a part of every life.

Whether it is dramatic social upheaval, revolutionary technological development, or merely the fact that all of us change as we grow older, a person must learn to cope with altered circumstances in his or her life. Perhaps the most exciting part of being an educated person in the late Twentieth Century is the fact that we can more than ever have some impact on the world around us.

Clearly, the graduate of Rose-Hulman must be prepared to adapt to changing technologies and changing conditions of international competitiveness, but the fact is scientists and engineers are among the most important change agents.

Most people will have to accept the conditions in their lives and make the most of their situation. A scientist or engineer really does have the opportunity to choose to be the agent of change or the victim of change.

In order to confront the Rose-Hulman community with the importance of educating students for a changing world, a series of symposia are being organized to discuss the critical issues.

Under the leadership of Al Schmidt, professor of mathematics, a faculty/student committee is currently planning these events.

The output of the series will be quite simply information. While some controversial views will be aired, there is no intention to indoctrinate.

Stimulating the Rose-Hulman intellectual environment to deal with the issue of change is the

major purpose. Scholars have noted that this is the information age. While in the past, societies have risen to dominance via military power, commercial acumen, resources, excellent transportation or production techniques, the future belongs to nations and individuals who can effectively gather and process information.

In a world of rapid change, knowledge is the critical edge needed by those who would be agents rather than victims of change. That is why these symposia are so important.

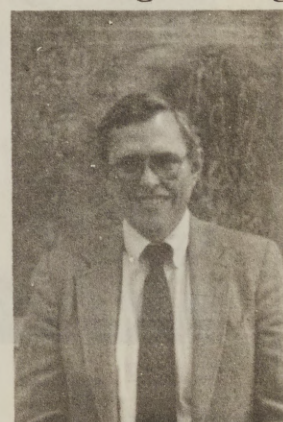
One of the important aspects of change agency which this series will discuss is entrepreneurship.

The entrepreneur is often viewed as any independent business person. Or, the word may be used as a synonym for inventor. In reality, the concept should more appropriately be applied to innovators — to those who find new ways to do things or new things to do. This is what Rose-Hulman's education should prepare students to do.

Yet, as Schumpeter observed in the early decades of this century, this type of innovation is really creative destruction. As the new sweeps into a position of dominance, old ways and those who are tied to them are destroyed or at least toppled from their positions of leadership.

The lesson of entrepreneurship for the 21st century is that it is not necessarily the survival of the "fittest" in the traditional senses of that word. In the information based international world we now face, it is undoubtedly survival of the creative.

Entrepreneurship represents a systematic effort to manage change. Fortunately, there are lessons from history to teach us. The pace of change is really not all that new for us. Most of us have grown up with it, because rapid change has characterized the industrialized world for decades.



Thomas Mason

Photo by Chris Sioffer

Furthermore, there are some enduring principles and values like honesty that will serve us well in the future as they have in the past.

The major message to come out of our discussions will probably be that managing change and our positions within the changes will require flexibility. This will be true for our institutions as well as individuals. And the key to providing this flexibility in an information age will be education. It is no longer adequate (if it ever was) to train an engineer or scientist.

The future will demand that education mean that graduates have learned how to learn.

Understanding change and its implications for your education may be the most important lesson you learn this year. The future and its uncertainty can be frightening to those who are ill prepared to adapt. However, to those who are educated it can be a wealth of challenges for the tools you have available.

We hope this series of symposia helps the Rose-Hulman community come closer to seeing changes as sources of opportunities.

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Sports

Engineers open up 2-1, Rose Invitational tonight

by Mike Lindsey

In their first week under new head coach Bill Fenlon, the Fightin' Engineer basketball team displayed a new found enthusiasm. This was transferred into two home wins to start the season, before a double overtime loss on the road.

In the season opener, the team displayed their eagerness on defense by limiting a good MacMurray team to only 38% shooting. This enabled Rose to cruise to a 63-58 victory. The game seemed well under control as the team maintained a ten point lead for most of the game. Late in the second half the visitors made their only charge of the contest by hitting on three consecutive 3-pointers. This rally was neutralized by the freethrow shooting of sophomore forward Britt Petty, who connected on all seven of his attempts.

Petty was one of four Engineers who scored in double figures by ending the game with 11 points and 7 rebounds. Junior forward Tim Cindric had a very good night by leading the team with 15 points and 8 boards. Center Trevor Olsen, a junior, and his back-up Rodney Adams, a sophomore, each chipped in with 10 points and 6 rebounds. Junior

point-guard Ronnie Steinhart also had a fine opening game by scoring 9 points and handing out a game high 7 assists.

In game two the Engineers used a big second half to overcome an eight point half-time deficit. In that half Rose totalled 45 points to Blackburns 30 in route to a 71-64 victory. Adams again came off the bench to spark the team. This time he scored 15 points on 7 of 9 shooting and made three steals.

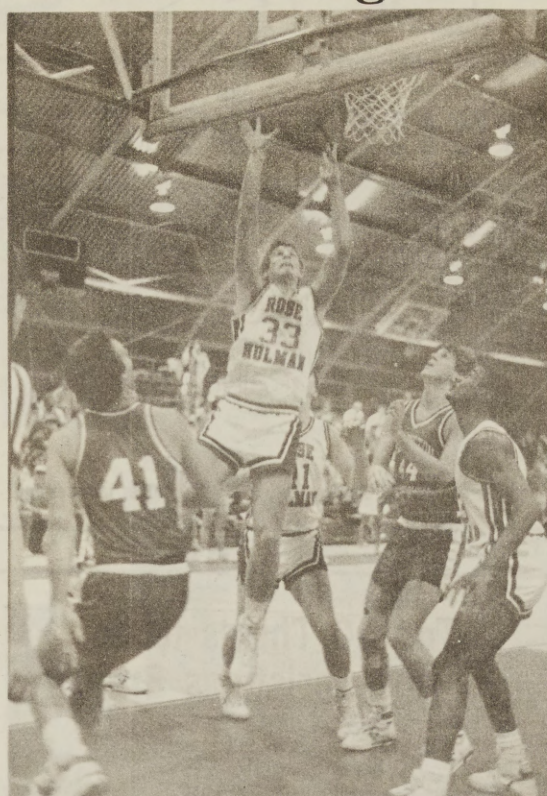
"...under new head coach Bill Fenlon, the Fightin' Engineers basketball team displaced new found enthusiasm."

The big second half was largely due to a very effective full court press. Senior swingman Jeff Harrison was a major part of the pressure by making 4 steals. Steinhart was also very effective, he snatched a game high 5 steals and handed out 5 assists. Cindric again pitched in 15 points, while Petty once again put the game away with 8 of 8 shooting from the free-throw line. Britt led the team in both

points and rebounds with 18 and 7 respectively, he also had 5 assists to share game high honors.

The first road game of the year left the team thinking about what they could fine tune. The double overtime heart breaker at Illinois College ended 87-85. The loss tarnished a very sparkling performance from Britt Petty. The sophomore forward used hot shooting to rally the team from a ten point deficit midway through the second half. For the game he finished with a career-high 35 points on 15 of 20 shooting, which included 5 three-pointers. Tim Cindric provided great support with 24 points and a game high 13 rebounds. Jeff Harrison helped in the latter with 8 rebounds. Ronnie Steinhart again performed his role by dishing out 9 assists and picking up 5 steals, both game highs.

This Friday and Saturday Rose plays host to MacMurray, Brescia, and Manchester in the annual Rose-Hulman Invitational. Games are scheduled for 6 p.m. and 8 p.m. on both nights with Rose in a re-match against MacMurray at 8 p.m. tonight. The championship and consolation games are scheduled for tomorrow.



Sophomore Britt Petty (33) goes up for a rebound late in the second half as the Engineers defeated Washington University 53-51.
photo by: Chris Slofer

Rose-Hulman's wrestling team places five

by Hyrum D. Lunt

The Rose-Hulman wrestling team competed in the Little State Tournament this past Friday and Saturday at the University of Indianapolis. Five wrestlers fought hard to earn their rankings at the tournament. No team scores were kept; instead, each team was allowed to enter as many people in each weight class as they had. Brian Engle, who wrestled in the 127 lbs. weight class, posted a 3-1 record on his way the highest placing of Rose's wrestlers, second place.

Bringing back a 4-1 record and a third place was freshman Matt Morin who wrestled in the 150 lbs. weight class. Matt lost his only match to last year's champion who repeated again. Two wrestlers brought home sixth place finishes. These were Jim Winkley at 142 lbs. and Spiro Megremis at 167 lbs. The final wrestler to secure a placing was David Koehl who earned a seventh place finish in the 158 lbs. weight class.

Although there are no returning juniors this year, the team looks as if it has a lot of potential. At least three of the freshmen have either been state qualifiers or champions while in high school. The team has most of their strength in the experience of the lightweight and middleweight classes. Two juniors and two sophomores are in the six weight classes between 126 lbs. and 167 lbs. One of the team members felt that the team

could do "pretty well if we can get some big guys out." He mentioned two new additions in the upper weights and expressed optimism on their contributions. Junior Brian Engle, one of the senior members of the team, said that there were some promising individuals on the team. He also extended some advice for success, "In spite of the lack of college experience (that the team has) . . . if they don't get frustrated, and . . . continue to drill and work on strength, can surprise a lot of people."

Rose wrestlers have a busy schedule with practice from 4:30 to 6:00 every night. Also, they have a meet the weekend before break. They have a double dual match against the University of Indianapolis and Urbana College on the 13th at the U of I. Their first home match will take place on January 10th, two days after school resumes.

1988-89 Rose-Hulman Wrestling Schedule

Fri. & Sat. Dec. 9 & 10	Olivet Nazarene Tournament	There
Tues., Dec. 13	Urbana College	University of Indianapolis
Tues., Jan 10	WABASH COLLEGE	HOME
Sat., Jan. 14	University of Indianapolis	There
Fri. & Sat. Jan. 20 & 21	Elmhurst Tournament	There
Fri. & Sat. Jan. 27 & 28	Monon Classic	Wabash or DePauw
Sat., Feb. 4	ROSE TOURNAMENT	HOME
Tues., Feb. 7	DePAUW UNIVERSITY	HOME
Sat., Feb. 11	Wheaton College	There
Sat., Feb. 25	NCAA Regionals	Wabash College
Sat., Mar. 4	NCAA Nationals	John Carroll University
Coach: Dan McGrath		

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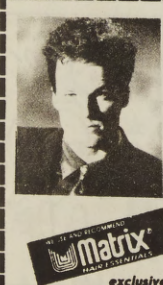
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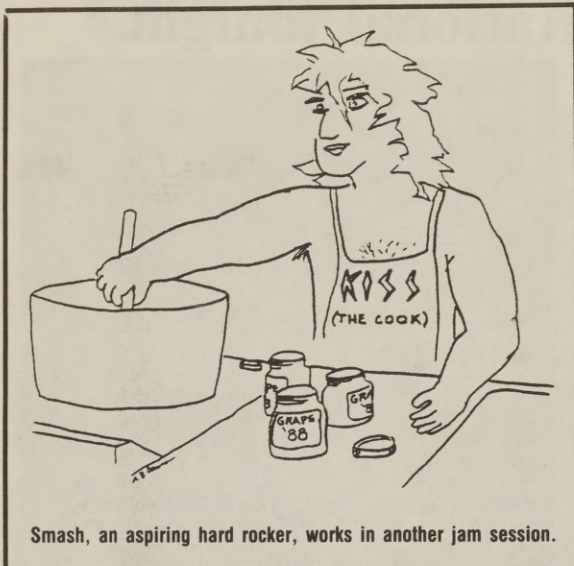
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Humor/Satire



Top 10 Things to do during Christmas Break

1. Have a *decent* meal.
2. Tell all the little kiddies that Santa is really our own Paul Amazin. He giveth and he taketh away...
3. Breathe. Terrible Hole will soon claim you again.
4. Whine about your roommate. Why should you stop now?
5. Decorate the tree. Or if you live in Pittsburgh, merely prop one of the many festively decorated drug-lords in the corner of the room. He's already colorful, and no doubt he's already lit up, so you save on lights, too.
6. Shave and a haircut and tatoo removal.
7. 200 hours of homework assigned by sadistic slime who want you to have "something to do" for the holidays while they are getting smashed on eggnogg...
8. Nothing. Three weeks of beautiful nothing.
9. Forget everything you've learned the first three weeks of the quarter. Realize that this is why scholarships are based on winter quarter GPA.
10. "... and a co-ed in a pine tree." Nuff said.

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BLOOM COUNTY

by Berke Breathed

